Half Yearly Report on Management of Foreign Exchange Reserves

October 2021 - March 2022



Reserve Bank of India

Department of External Investments and Operations (DEIO)

Central Office, Mumbai

Report on Management of Foreign Exchange Reserves

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Developments during the Half Year ended March 2022

I.1 Introduction

The Reserve Bank of India publishes half-yearly reports on management of foreign exchange reserves as part of its efforts towards enhanced transparency and levels of disclosure. These reports are prepared half yearly with reference to the position as at end-March and end-September each year. The present report (38th in the series) is with reference to the position as at end-March 2022.

The report is divided into two parts: Part I contains the developments regarding movement of foreign exchange reserves, information on the external liabilities vis-à-vis the reserves, adequacy of reserves, *etc.*, during the half-year under review. Objectives of reserve management, statutory provisions, risk management practices, information on transparency and disclosure practices followed by the RBI with regard to reserve management are covered in Part II.

Part-I

I.2 Movement of Foreign Exchange Reserves

I.2.1 Review of Growth of Foreign Exchange Reserves

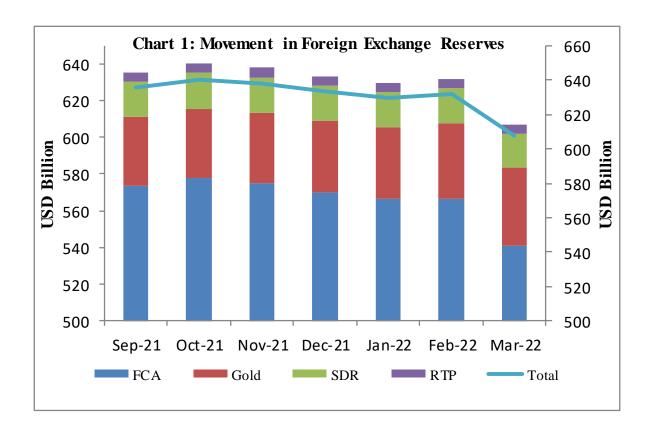
During the half-year period under review, reserves decreased from USD 635.36 billion as at end-September 2021 to USD 607.31 billion as at end-March 2022 (**Table 1 and Chart 1**).

Although both US dollar and Euro are intervention currencies and the Foreign Currency Assets (FCA) are maintained in major currencies, the foreign exchange reserves are denominated and expressed in US dollar terms. Movements in the FCA occur mainly on account of purchase and sale of foreign exchange by the RBI, income arising out of the deployment of the foreign exchange reserves, external aid receipts of the Central Government and changes on account of revaluation of the assets.

Table 1: Movement in Foreign Exchange Reserves					
					(USD Million)
Month End	FCA	Gold	SDR	RTP	Forex Reserves
September-21	573599	37389	19304	5070	635363
September-21			(13657)		
October-21	577554	38269	19329	5242	640394
October-21			(13657)		
November-21	574939	38777	19093	5188	637997
November-21			(13657)		
December 21	569889	39405	19114	5207	633614
December-21			(13657)		
January 22	566689	39087	18993	5178	629947
January-22			(13657)		
Eshmorn 22	566295	41338	19041	5189	631863
February-22			(13657)		
March 22	540724	42551	18891	5143	607309
March-22			(13657)		

Notes:

- (i) FCA (Foreign Currency Assets): FCA are maintained as a multi-currency portfolio comprising major currencies, such as, US dollar, Euro, Pound sterling, Japanese yen, *etc*. and are valued in terms of US dollars.
- (ii) FCA excludes (a) investment in bonds issued by IIFC (UK) (b) SDR holdings of Reserve Bank, which is included under SDR and (c) amount lent under SAARC Swap Arrangement.
- (iii) SDR (Special Drawing Rights): Values in SDR million have been indicated in parentheses.
- (iv) RTP refers to the Reserve Tranche Position in the International Monetary Fund (IMF).
- (v) Difference, if any, is due to rounding off.



I.2.2 Sources of Accretion to Foreign Exchange Reserves

On a balance of payments basis (i.e., excluding valuation effects), foreign exchange reserves increased by US\$ 63.5 billion during April-December 2021 as compared with US\$ 83.9 billion during April-December 2020. Foreign exchange reserves in nominal terms (including valuation effects) increased by US\$ 56.6 billion during April-December 2021 as compared with US\$ 108.0 billion in the corresponding period of the preceding year.

Table 2 provides details of sources of variation in foreign exchange reserves during April-December 2021 vis-à-vis the corresponding period of the previous year. The valuation loss, reflecting the appreciation of the US dollar against major currencies, amounted to US\$ 6.9 billion during April-December 2021 as against a valuation gain of US\$ 24.1 billion during April-December 2020.

Table 2: Sources of Variation to Foreign Exchange Reserves*				
	(USD billion			
		April-	April-	
	Items	December	December	
		2020	2021 **	
I.	Current Account Balance	32.1	-26.6	
II.	Capital Account (net) (a to f)	51.8	90.1	
a.	Foreign Investment	70.1	24.9	
(i)	Foreign Direct Investment	41.3	26.5	
(ii)	Portfolio Investment, [(of which)]	28.9	-1.6	
	FII	30.5	0.2	
	ADR/GDR	0.0	0.0	
b.	Banking Capital, [(of which)]	-16.6	12.6	
	NRI Deposits	7.9	3.1	
c.	Short term credit	-1.8	13.3	
d.	External Assistance	7.2	2.7	
e.	External Commercial Borrowings	-6.2	4.9	
f.	Other items in capital account	-0.8	31.7	
III.	Valuation change	24.1	-6.9	
	Total (I+II+III) @			
	Increase in reserves (+) / Decrease in	108.0	56.6	
	reserves (-)			

^{*:} Based on the old format of BoP which may differ from the new format (BPM6) in the treatment of transfers under the current account and ADRs/ GDRs under portfolio investment.

Note: 'Other items in capital account' apart from 'Errors and Omissions' include SDR allocations, leads and lags in exports, funds held abroad, advances received pending issue of shares under FDI and capital receipts not included elsewhere and rupee denominated debt.

**: Updated figures available only up to December 2021.

I.3 Forward Outstanding

The net forward asset (receivable) of the Reserve Bank in domestic foreign exchange market stood at USD 65.79 billion as at the end of March 2022.

^{@:} Difference, if any, is due to rounding off.

I.4 External Liabilities vis-à-vis Foreign Exchange Reserves

India's International Investment Position (IIP), which is a summary record of the stock of country's external financial assets and liabilities as at end-December 2021, is furnished in **Table**3. During the period between end-December 2020 and end-December 2021, the external assets increased by USD 73.8 billion and external liabilities increased by USD 86.5 billion.

Table 3: International Investment Position of India *				
			(USD Billion)	
		End-	End-	
Item		December	December	
		2020 (R)	2021 (P)	
A. T	otal External Assets	852.4	926.2	
1.	Direct Investment	190.9	206.4	
2.	Portfolio Investment	6.3	9.7	
3.	Other Investment	69.4	76.5	
4.	Foreign Exchange Reserves	585.8	633.6	
B. Total External Liabilities		1197.6	1284.1	
1.	Direct Investment	480.3	514.3	
2.	Portfolio Investment	270.3	277.2	
3.	Other Investment	447.0	492.6	
C.	Net IIP (A-B)@	(-) 345.2	(-) 357.9	
P: Provisional, R: Revised.				
@ Difference, if any, is due to rounding off.				
*: Updated figures available only up to December 2021.				

The net IIP as at end-December 2021 was negative at USD 357.9 billion as against a negative net IIP of USD 345.2 billion at end-December 2020, implying that the sum of all external liabilities is more than that of the external assets in both periods.¹ There has been an increase in the negative gap on a year-on-year basis.

¹ Partially revised figures and hence may not tally with figures published in the previous reports.

I.5 Adequacy of Reserves

At end of December 2021, foreign exchange reserves cover of imports (on balance of payments basis) declined to 13.1 months from 14.6 months at end-September 2021. The ratio of short-term debt (original maturity) to reserves, which was 16.5 per cent at end-September 2021, increased to 18.1 per cent at end-December 2021. The ratio of volatile capital flows (including cumulative portfolio inflows and outstanding short-term debt) to reserves increased from 64.1 per cent at end-September 2021 to 65.0 per cent at end-December 2021.

I.6. Management of Gold Reserves

As at end-March 2022, the Reserve Bank held 760.42 metric tonnes of gold (including gold deposits of 11.08 metric tonnes). While 453.52 metric tonnes of gold is held overseas in safe custody with the Bank of England and the Bank of International Settlements (BIS), 295.82 metric tonnes of gold is held domestically. In value terms (USD), the share of gold in the total foreign exchange reserves increased from about 5.88 per cent as at end-September 2021 to about 7.01 per cent as at end-March 2022.

I.7 Investment Pattern of the Foreign Currency Assets

The foreign currency assets comprise multi-currency assets that are held in multi-asset portfolios as per the existing norms, which conform to the best international practices followed in this regard. As at end-March 2022, out of the total FCA of USD 540.72 billion, USD 363.03 billion was invested in securities, USD 140.54 billion was deposited with other central banks and the BIS and the balance USD 37.16 billion comprised deposits with commercial banks overseas (**Table 4**).

Table 4 : Deployment Pattern of Foreign Currency Assets			
	(USD Million		
	As at end of September 2021	As at end of March 2022	
Foreign Currency Assets (FCA) *	5,73,599	5,40,724	
(a) Securities	3,83,737	3,63,031	
	(66.90)	(67.14)	
(b) Deposits with other central banks	1,47,861	1,40,538	
& BIS	(25.78)	(25.99)	
(c) Deposits with commercial banks	42,001	37,155	
overseas	(7.32)	(6.87)	

^{*} FCA excludes (a) investment in bonds issued by IIFC (UK) (b) SDR holdings of Reserve Bank which is included under SDR and (c) amount lent under SAARC Swap Arrangement.

Note: Figures in parenthesis indicate percentage to total FCA.

I.8 Other Related Aspects

I.8.1 Financial Transaction Plan (FTP) of the IMF

During the half year under review, there were two Purchase Transactions aggregating USD 172.15 million and two repurchase transactions aggregating USD 22.56 million under the FTP of the IMF.

I.8.2 Investments under New Arrangements to Borrow (NAB) and Note Purchase Agreement (NPA) with IMF

India had committed to provide resources up to SDR 4,440.91 million under the IMF's New Arrangements to Borrow (NAB). Effective January 01, 2021, the size of IMF's NAB has been doubled. India's commitment under NAB now stands at SDR 8,881.82 million as on March 31, 2022. RBI has subscribed to Notes equivalent to SDR 88.62 million under NAB till the end of March 2022, as part of Government of India's Contribution. In terms of the Note Purchase Agreement (NPA) 2020, entered into between RBI and IMF, RBI has agreed to invest an amount equivalent to USD 3.90 billion in SDR denominated Notes issued by IMF.

I.8.3 SAARC Swap Arrangement between India and Bhutan

Bhutan had availed a swap of ₹14,541.94 million, equivalent to USD 200 million on March 15, 2021 due for maturity on June 15, 2021. The swap was rolled over twice for three months each. After the second rollover the swap got matured on December 15, 2021. Another facility of ₹15,178.70 million equivalent to USD 200 million was availed on March 17, 2022 with maturity falling on June 17, 2022.

I.8.4 SAARC Swap Arrangement between India and Maldives

Maldives had availed a swap of USD 250 million on December 29, 2020 for six months with maturity falling on June 29, 2021. After the first roll over, the swap matured on December 29, 2021.

I.8.5 SAARC Swap Arrangement between India and Sri Lanka

Sri Lanka has availed a swap of USD 400 million on January 13, 2022 for three months with maturity falling on April 18, 2022.

I.8.6 Investment in bonds issued by IIFC (UK)

The Reserve Bank has the mandate to invest up to USD 5 billion, in the bonds issued by the India Infrastructure Finance Company (UK) Limited. As at end- March 2022, the amount invested in such bonds stood at USD 1.44 billion.

Part-II

Objectives of Reserve Management, Legal Framework, Risk Management Practices, Transparency and Disclosure

II.1. Objectives of Reserve Management

The guiding objectives of foreign exchange reserve management in India are similar to those of many central banks in the world. The demands placed on the foreign exchange reserves may vary widely depending upon a variety of factors including the exchange rate regime adopted by the country, the extent of openness of the economy, the size of the external sector in a country's GDP and the nature of markets operating in the country. While safety and liquidity constitute the twin objectives of reserve management in India, return optimization is kept in view within this framework.

II.2. Legal Framework and Policies

The Reserve Bank of India Act, 1934 provides the overarching legal framework for deployment of reserves in different foreign currency assets and gold within the broad parameters of currencies, instruments, issuers and counterparties. The essential legal framework for reserve management is provided in sub-sections 17(6A), 17(12), 17(12A), 17(13) and 33 (6) of the above Act. In brief, the law broadly permits the following investment categories:

- deposits with other central banks and the BIS;
- deposits with commercial banks overseas;
- debt instruments representing sovereign/sovereign-guaranteed liability with residual maturity for the debt papers not exceeding 10 years;
- other instruments / institutions as approved by the Central Board of the Reserve Bank in accordance with the provisions of the Act; and
- dealing in certain types of derivatives.

II.3 Risk Management

The broad strategy for reserve management including currency composition and investment policy is decided in consultation with the Government of India. The risk management functions are aimed at ensuring development of sound governance structure in line with the best international practices, improved accountability, a culture of risk awareness across all operations, efficient allocation of resources and development of in-house skills and expertise. The risks attendant on deployment of reserves, viz., credit risk, market risk, liquidity risk and operational risk and the systems employed to manage these risks are detailed in the following paragraphs.

II.3.1 Credit Risk

The Reserve Bank is sensitive to the credit risk it faces on account of the investment of foreign exchange reserves in the international markets. The Reserve Bank's investments in bonds/treasury bills represent debt obligations of highly rated sovereigns, central banks and supranational entities. Further, deposits are placed with central banks, the BIS and commercial banks overseas. RBI has framed requisite guidelines for selection of issuers/ counterparties with a view to enhancing the safety and liquidity aspects of the reserves. The Reserve Bank continues to apply stringent criteria for selection of counterparties. Credit exposure vis-à-vis sanctioned limit in respect of approved counterparties is monitored continuously. Developments regarding counterparties are constantly under watch. The basic objective of such an on-going exercise is to assess whether any counterparty's credit quality is under potential threat.

II.3.2 Market Risk

Market risk for a multi-currency portfolio represents the potential change in valuations that result from movements in financial market prices, for example, changes in interest rates, foreign exchange rates, equity prices and commodity prices. The major sources of market risk for central banks are currency risk, interest rate risk and movement in gold prices. Gains/losses on valuation of FCA and gold due to movements in the exchange rates and/or price of gold are booked under a balance sheet head named the Currency and Gold Revaluation Account (CGRA). The balances in CGRA provide a buffer against exchange rate/gold price fluctuations. The dated foreign securities are valued at market prices as on the last business day of each week and month and the appreciation/depreciation arising therefrom is transferred to the Investment Revaluation Account (IRA). The balance in IRA is meant to provide cushion against changes in the security prices over the holding period.

II.3.2.1 Currency Risk

Currency risk arises due to movements in the exchange rates. Decisions are taken on the long-term exposure to different currencies, depending on the likely movements in exchange rates and other considerations in the medium and long-term. The decision-making procedure is supported by reviews of the strategy on a regular basis.

II.3.2.2 Interest Rate Risk

The crucial aspect of the management of interest rate risk is to protect the value of the investments as much as possible from adverse impact of interest rate movements. The interest rate sensitivity of the portfolio is identified in terms of the benchmark duration and the permitted deviation from the benchmark.

II.3.2.3 Liquidity Risk

Liquidity risk involves the risk of not being able to sell an instrument or close a position when required without facing significant costs. The reserves need to have a high level of liquidity at all times in order to be able to meet any unforeseen and emergency needs. Any adverse development on the external front would pose a demand on our forex reserves and, hence, the investment strategy needs a highly liquid portfolio. The choice of instruments determines the liquidity of the portfolio. For example, in some markets, treasury securities could be liquidated in large volumes without much distortion of the price in the market and, thus, can be considered as liquid. Except fixed deposits with the BIS/ commercial banks overseas / central banks and securities issued by supranationals, almost all other types of investments are highly liquid instruments which could be converted into cash at short notice. The Reserve Bank closely monitors the portion of the reserves, which could be converted into cash at a very short notice, to meet any unforeseen/emergency needs.

II.3.3 Operational Risk and Control System

In tune with the global trend, close attention is paid to strengthen the operational risk control arrangements. Key operational procedures are documented. Internally, there is total separation of

the front office and the back office functions and the internal control systems ensure several checks at the stages of deal capture, deal processing and settlement. The deal processing and settlement system, including generation of payment instructions, is also subject to internal control guidelines. There is a system of concurrent audit for monitoring compliance in respect of the internal control guidelines. Further, reconciliation of accounts is done regularly. In addition to internal audit and independent monitoring, the financial accounts are audited by external statutory auditors. There is a comprehensive reporting mechanism covering significant areas of activity/ operations relating to reserve management. These are provided to the senior management periodically, at frequent intervals, depending on the type and sensitivity of information. The Reserve Bank uses SWIFT as the messaging platform to settle its trades and send financial messages to its counterparties, custodians of securities and other business partners. International best practices with respect to usage and security of SWIFT system are followed. All the necessary upgrades were timely implemented in the SWIFT Alliance Access system along with strict compliance with all the mandatory security control measures as recommended by SWIFT. The SWIFT infrastructure was successfully upgraded including the hardware and software components and the system was upgraded to the latest version.

II.4 Transparency and Disclosures

The Reserve Bank has been making available in the public domain data relating to Foreign Exchange Reserves, its operations in foreign exchange market, position of the country's external assets and liabilities and earnings from deployment of Foreign Currency Assets and gold through periodic press releases of its Weekly Statistical Supplements, Monthly Bulletins, Annual Reports, etc. The Reserve Bank's approach with regard to transparency and disclosure closely follows international best practices in this regard. The Reserve Bank has adopted the Special Data Dissemination Standards (SDDS) template of the IMF for publication of the detailed data on Foreign Exchange Reserves. Such data are made available on monthly basis on the Reserve Bank's website.